

CLAIMS

1. A composition comprising a spray dried solid dispersion, which dispersion comprises a sparingly water-soluble drug and HPMCAS, said dispersion providing a maximum concentration of said drug in a use environment that is higher by a factor of at least 1.5 relative to a control composition comprising an equivalent quantity of undispersed drug.
2. A composition as described in claim 1, wherein said drug has a dose to aqueous solubility ratio greater than 100.
3. A composition as defined in claim 1, wherein said drug is crystalline when undispersed.
4. A composition as defined in claim 1, wherein said drug is amorphous when undispersed.
5. A composition as defined in claim 1, wherein said use environment is the gastrointestinal tract.
6. A composition as defined in claim 1, wherein said use environment is MFD.
7. A composition of matter comprising a spray-dried solid dispersion, which dispersion comprises a sparingly soluble drug and HPMCAS, said dispersion exhibiting a maximum supersaturated concentration in MFD which is higher by a factor of at least 1.5 relative to the equilibrium concentration exhibited by a control composition comprising an equivalent quantity of undispersed drug.
8. A composition as described in claim 7, wherein said drug has a dose to aqueous solubility ratio greater than 100.
9. A composition as defined in claim 7, wherein said drug is crystalline when undispersed.
10. A composition as defined in claim 7, wherein said drug is amorphous when undispersed.
11. A composition comprising a spray dried solid dispersion, which dispersion comprises a sparingly water-soluble drug and HPMCAS, said dispersion effecting, *in vivo*, a maximal observed blood drug concentration ( $C_{max}$ ) that is higher by a factor of at least 1.25 relative to a control composition comprising an equivalent quantity of undispersed drug.

12. A composition as defined in claim 11, wherein said drug is crystalline when undispersed.

13. A composition as defined in claim 11, wherein said drug is amorphous when undispersed.

5 14. A composition as described in claim 11, wherein said drug has a dose to aqueous solubility ratio greater than 100.

10 15. A composition comprising a spray dried solid dispersion, which dispersion comprises a sparingly water-soluble drug and HPMCAS, said dispersion effecting, *in vivo*, an AUC that is higher by a factor of at least 1.25 relative to a control composition comprising an equivalent quantity of undispersed drug.

16. A composition as defined in claim 15, wherein said drug is crystalline when undispersed.

17. A composition as defined in claim 15, wherein said drug is amorphous when undispersed.

15 18. A composition as described in claim 15, wherein said drug has a dose to aqueous solubility ratio greater than 100.

19. A process for making a spray dried solid dispersion comprising

A. forming a solution comprising (i) HPMCAS, (ii) a sparingly water-soluble drug, and (iii) a solvent in which both (i) and (ii) are soluble; and

20 B. spray drying said solution, thereby forming spray dried particles having an average diameter less than 100  $\mu\text{m}$ .

20. A process as defined in claim 19, wherein the concentration of drug in said solvent is less than 20g/100g of solvent.

21. A process as defined in claim 19, wherein the spray drying is conducted under conditions whereby said droplets solidify in less than 20 seconds.

22. A composition as defined in claim 1, wherein the concentration of drug in MFD falls to no less than 25% of the maximum supersaturated concentration during the 15 minutes following the time at which the maximum supersaturated concentration is reached.

30 23. A composition as defined in claim 1, wherein said dispersion is in the form of particles less than 100  $\mu\text{m}$  in diameter.

24. A composition as defined in claim 7, wherein said dispersion is in the form of particles less than 100 µm in diameter.

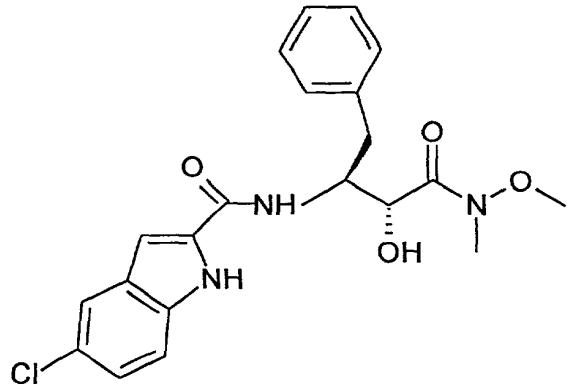
25. A composition as defined in claim 11, wherein said dispersion is in the form of particles less than 100 µm in diameter.

5 26. A composition as defined in claim 15, wherein said dispersion is in the form of particles less than 100 µm in diameter.

27. A composition as defined in claim 1, wherein the drug to HPMCAS weight ratio is from 1/0.2 to 1/100.

10 28. A composition as defined in claims 1, 7, 11, or 15, wherein said compound is a glycogen phosphorylase inhibitor.

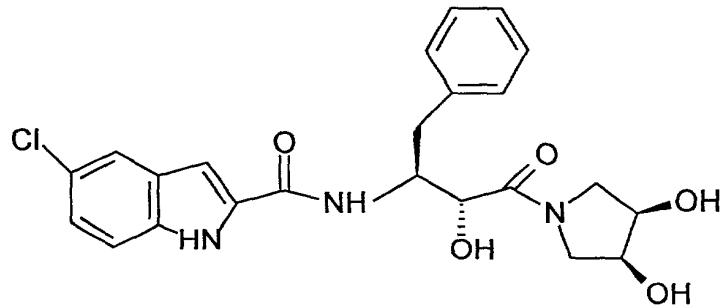
29. A composition as defined in claims 1, 7, 11, or 15, wherein said compound is



or a pharmaceutically acceptable salt thereof.

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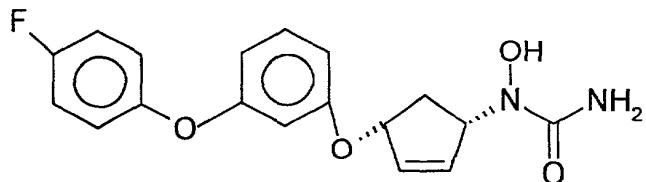
30. A composition as defined in claims 1, 7, 11, or 15, wherein said compound is



or a pharmaceutically acceptable salt thereof.

31. A composition as defined in claims 1, 7, 11, or 15, wherein said compound is a 5-lipoxygenase inhibitor.

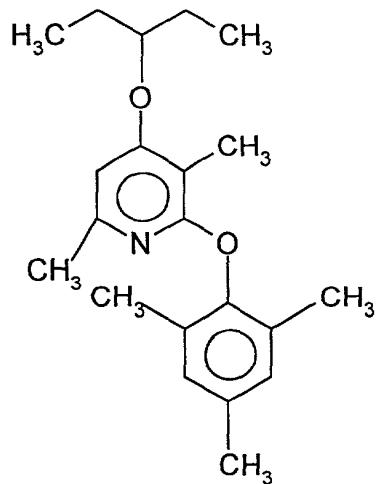
5 32. A composition as defined in claims 1, 7, 11, or 15, wherein said compound is



or a pharmaceutically acceptable salt thereof.

10 33. A composition as defined in claims 1, 7, 11, or 15, wherein said compound is a CRH inhibitor.

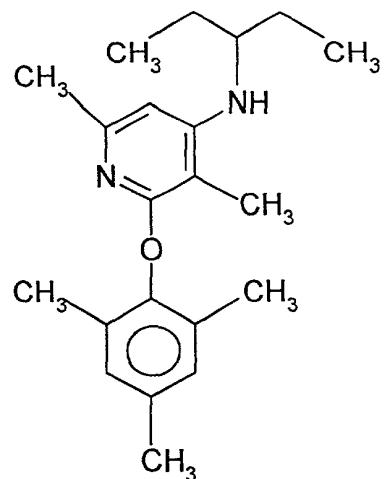
34. A composition as defined in claims 1, 7, 11, or 15, wherein said compound is



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or a pharmaceutically acceptable salt thereof.

35. A composition as defined in claims 1, 7, 11, or 15, wherein said compound is



or a pharmaceutically acceptable salt thereof.

36. A composition as defined in claims 1, 7, 11, or 15, wherein said compound is an antipsychotic.

5 37. A composition as defined in claims 1, 7, 11, or 15, wherein said compound is ziprasidone.

38. A composition as defined in claims 1, 7, 11, or 15, wherein said compound is selected from griseofulvin, nifedipine, and phenytoin.